

FIG. 2

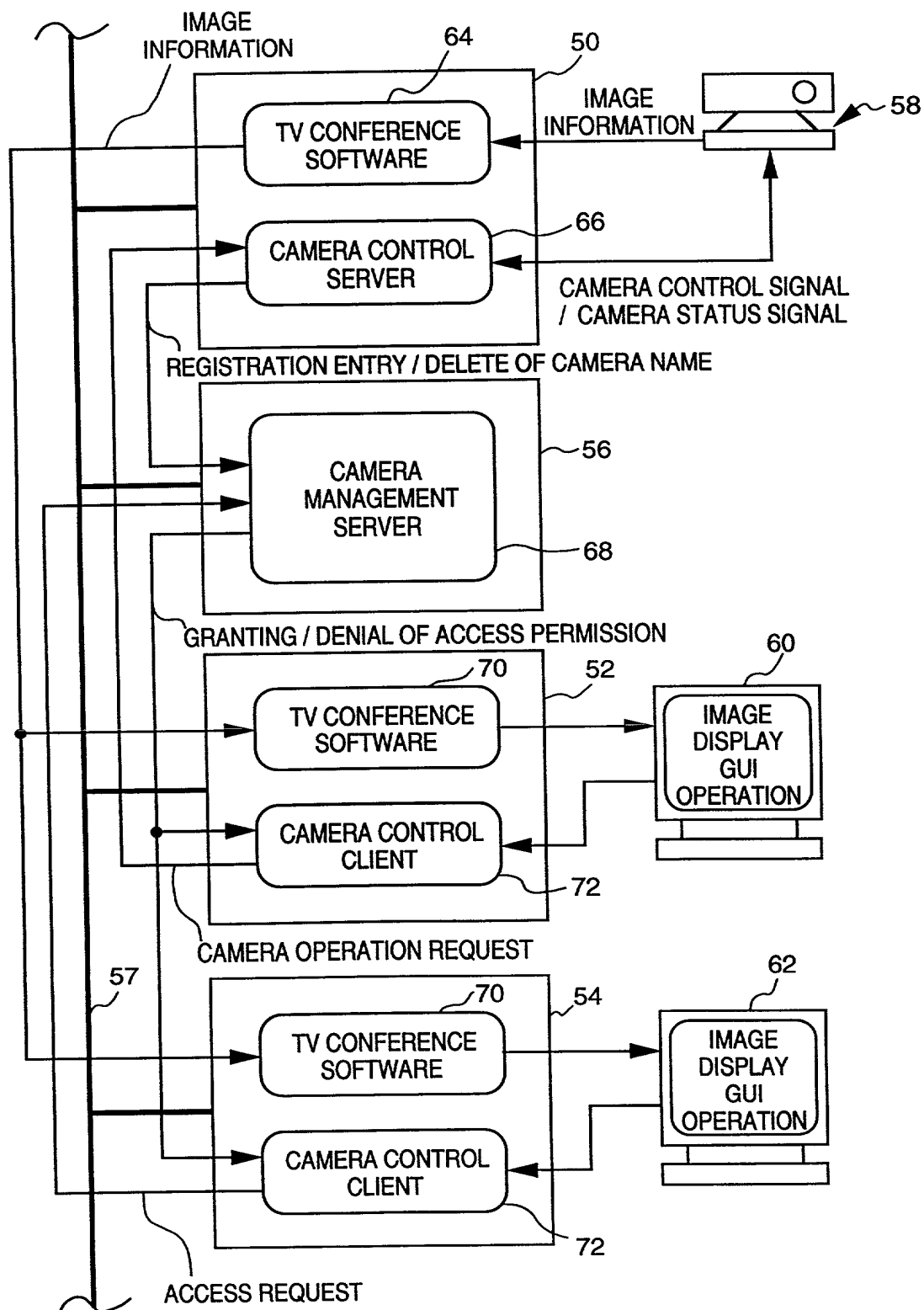


FIG. 3

```
typedef struct camera_in {
    double tilt_angle;
    double pan_angle;
    int zoom;
} camera_in;

typedef struct func_out {
    int ret;
} func_out;

CLIENT * camera_open (char * host);
void camera_close (CLIENT * cl);

func_out * camera_pan_pos_1 (camera_in *, CLIENT * cl);
func_out * camera_tilt_pos_1 (camera_in *, CLIENT * cl);
func_out * camera_zoom_pos_1 (camera_in *, CLIENT * cl);
```

FIG. 4

CAMERA NAME	USER NAME	POSITION	DIRECTION
host1	-----	(10, 15, 20)	(20, 35)
host2	host3	(45, 32, 20)	(0, 12)
host3	-----		
host4	host1		
⋮	⋮		

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FIG. 5

```

typedef struct camera_name {
    char name [MAXNAME];
} camera_name ;

void append_camera_list_1 (camera_name *, CLIENT * cl) ;
void delete_camera_list_1 (camera_name *, CLIENT * cl) ;

```

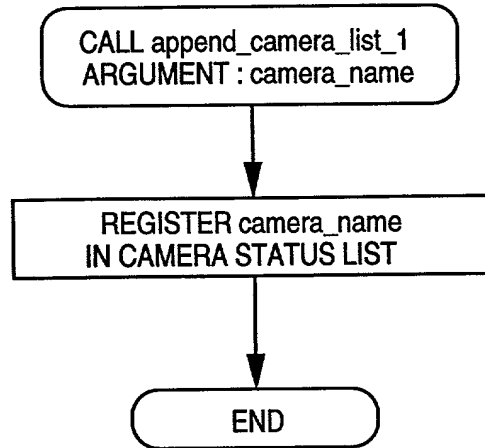
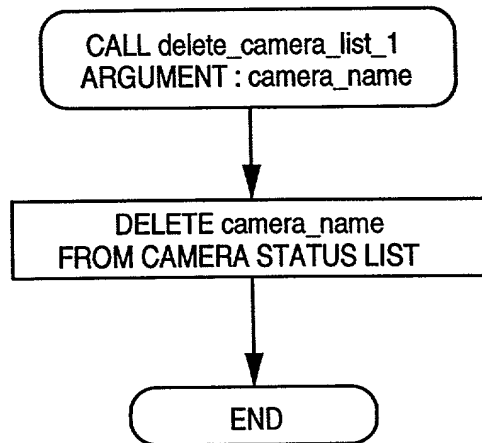
FIG. 6**FIG. 7**

FIG. 9

```
func_out * access_begin_1 (access_in *, CLIENT * cl);
func_out * access_end_1 (access_in *, CLIENT * cl);
```

```
func_out * access_begin_1 (access_in *, CLIENT * cl);
func_out * access_end_1 (access_in *, CLIENT * cl);
```

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CAMERA NAME	USER NAME	ACCESS RIGHT
host1	host1	OK
host2	host2	-----
host3	host3	NO
host4	host4	OK
⋮	⋮	⋮

FIG. 10

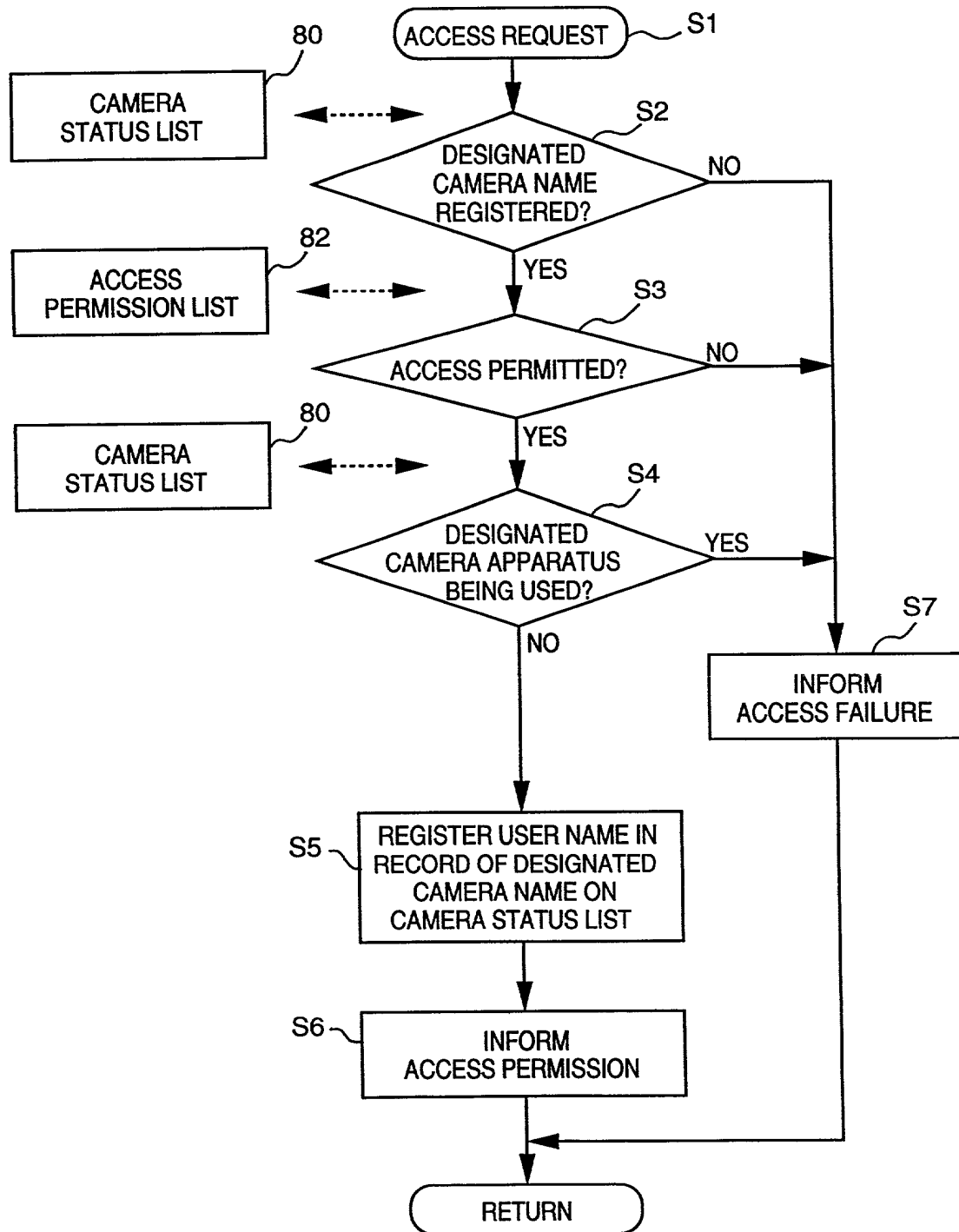


FIG. 11

```
typedef struct change_in {  
    char target_name [MAXNAME];  
    char user_name [MAXNAME];  
    int access_mode;  
} change_in;  
  
func_out * change_access_mode_1 (change_in *, CLIENT * cl);
```

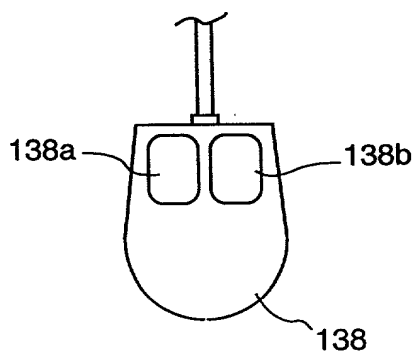
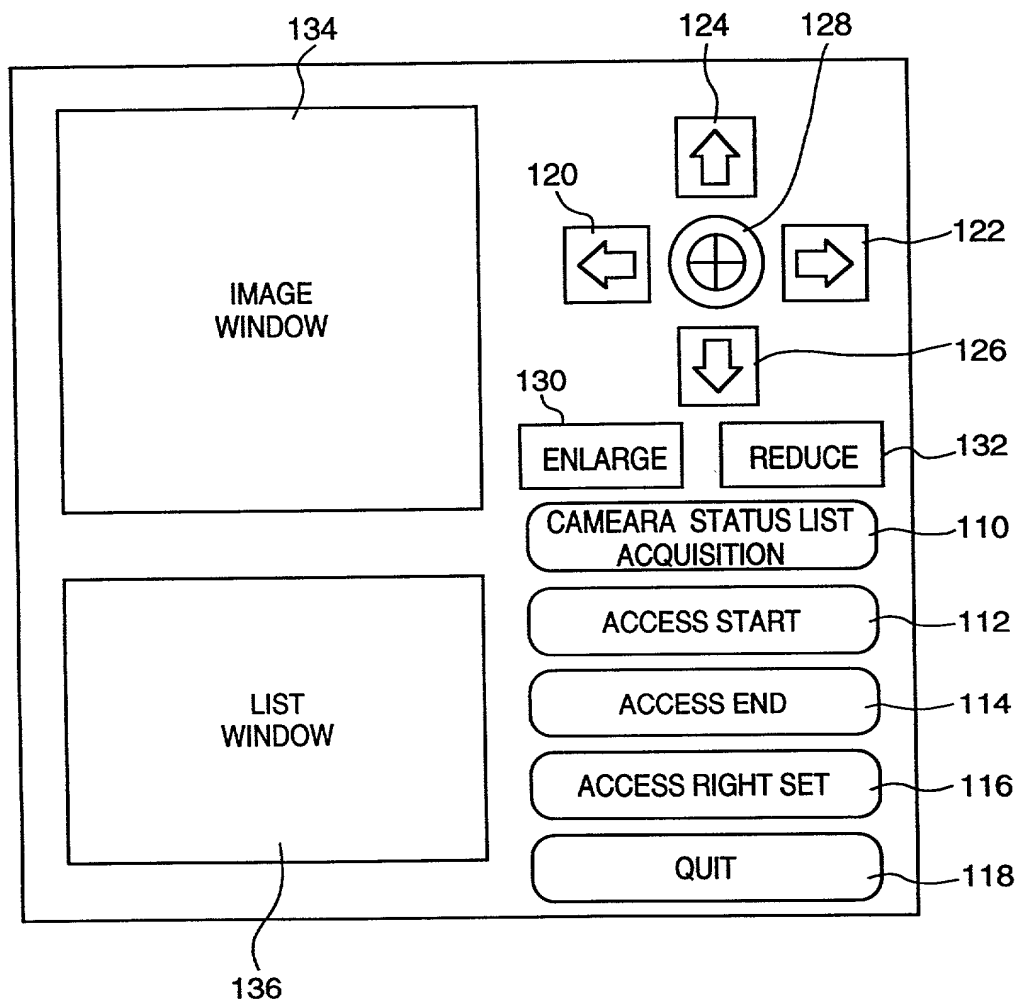

FIG. 12

FIG. 13

MODE MANAGEMENT TABLE	
USER NAME	MODE
USER 1	1
USER 2	2
USER 3	1
⋮	⋮

FIG. 14

LIMITING RANGE MANAGEMENT TABLE			
MODE	OPERATION	UPPER LIMIT	LOWER LIMIT
3	PAN	5.0°	(−5.0)°
3	TILT	7.0°	(−7.0)°
3	ZOOM	60 mm	70 mm

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FIG. 15

MODE MANAGEMENT TABLE

USER NAME	MODE
USER 1	1
USER 2	2
USER 3	1
⋮	⋮

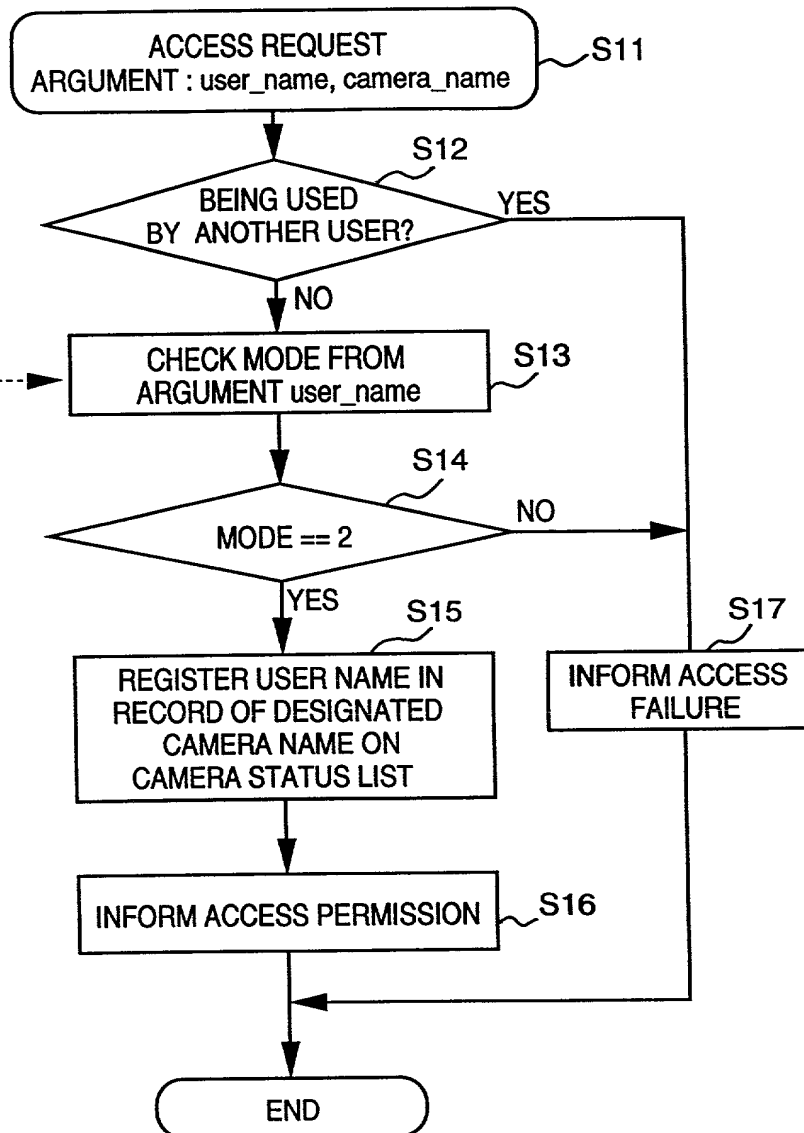


FIG. 16

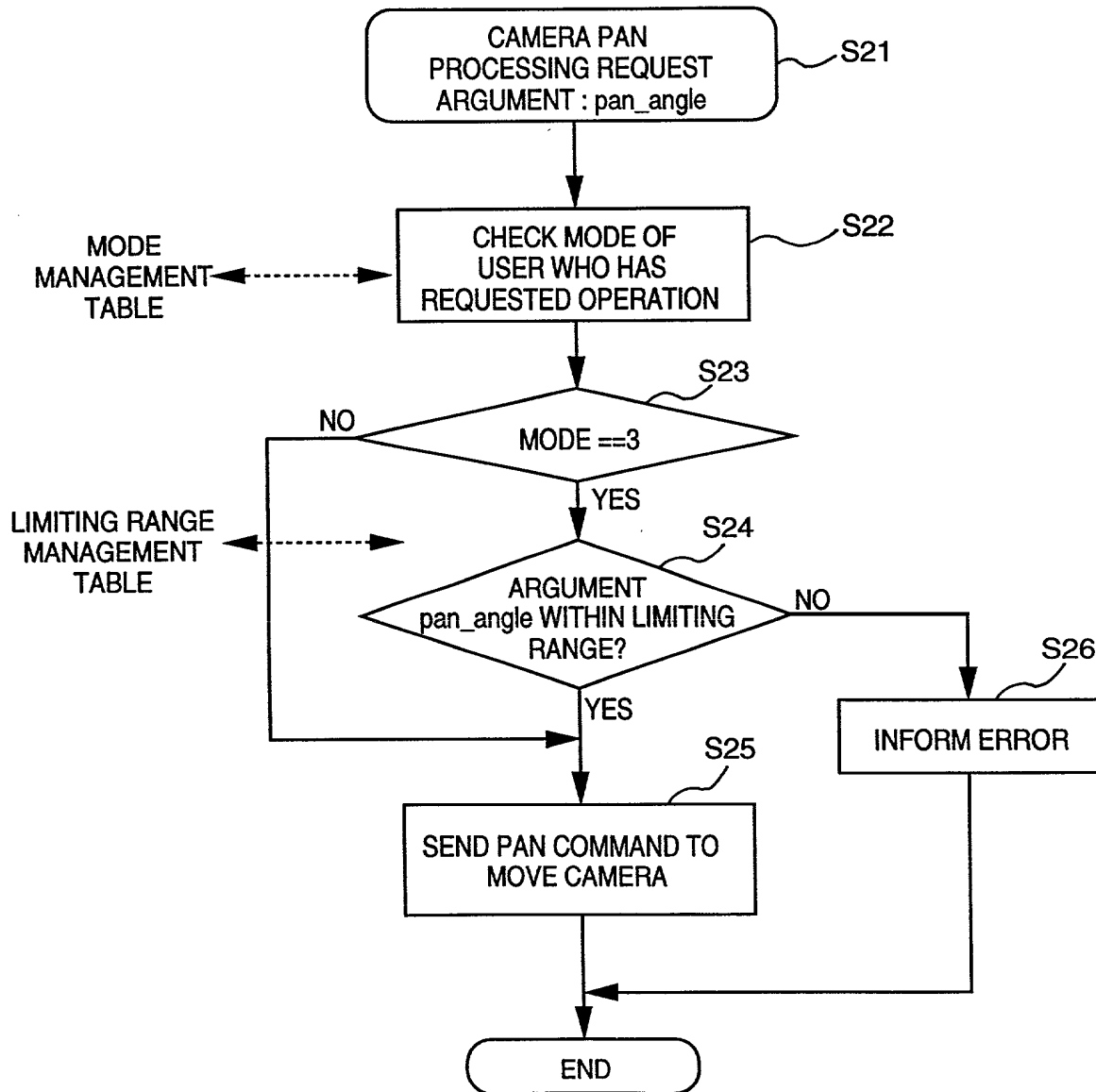


FIG. 17

```

typedef struct limitation {
    char camera_name [MAXNAME];
    char user_name [MAXNAME];
    int limit_mode;
    double tilte_plus_angle;
    double tilte_minus_angle;
    double pan_plus_angle;
    double pan_minus_angle;
    int min_zoom;
    int max_zoom;
} limitation;

```

```

void set_limit_mode_1 (limitation *, CLIENT * cl);

```

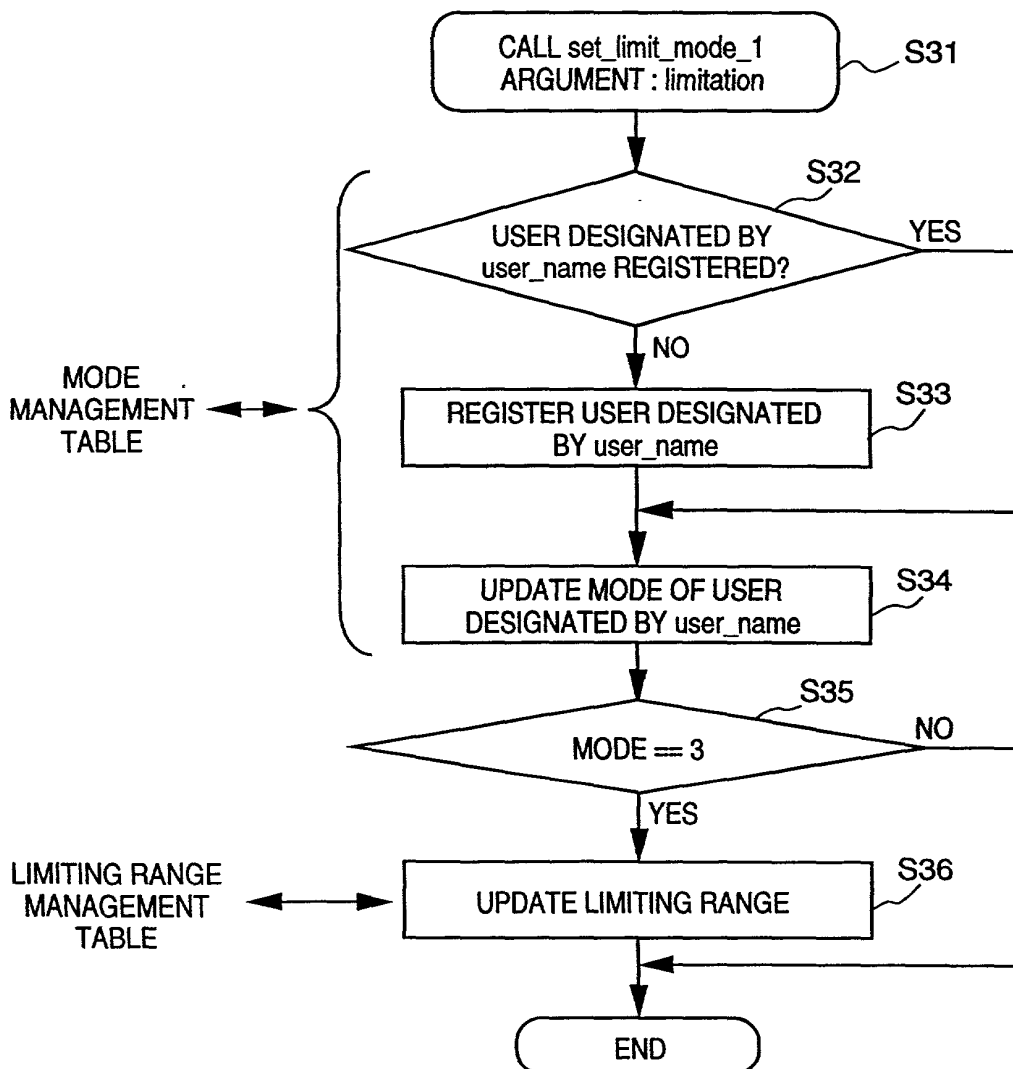
FIG. 18

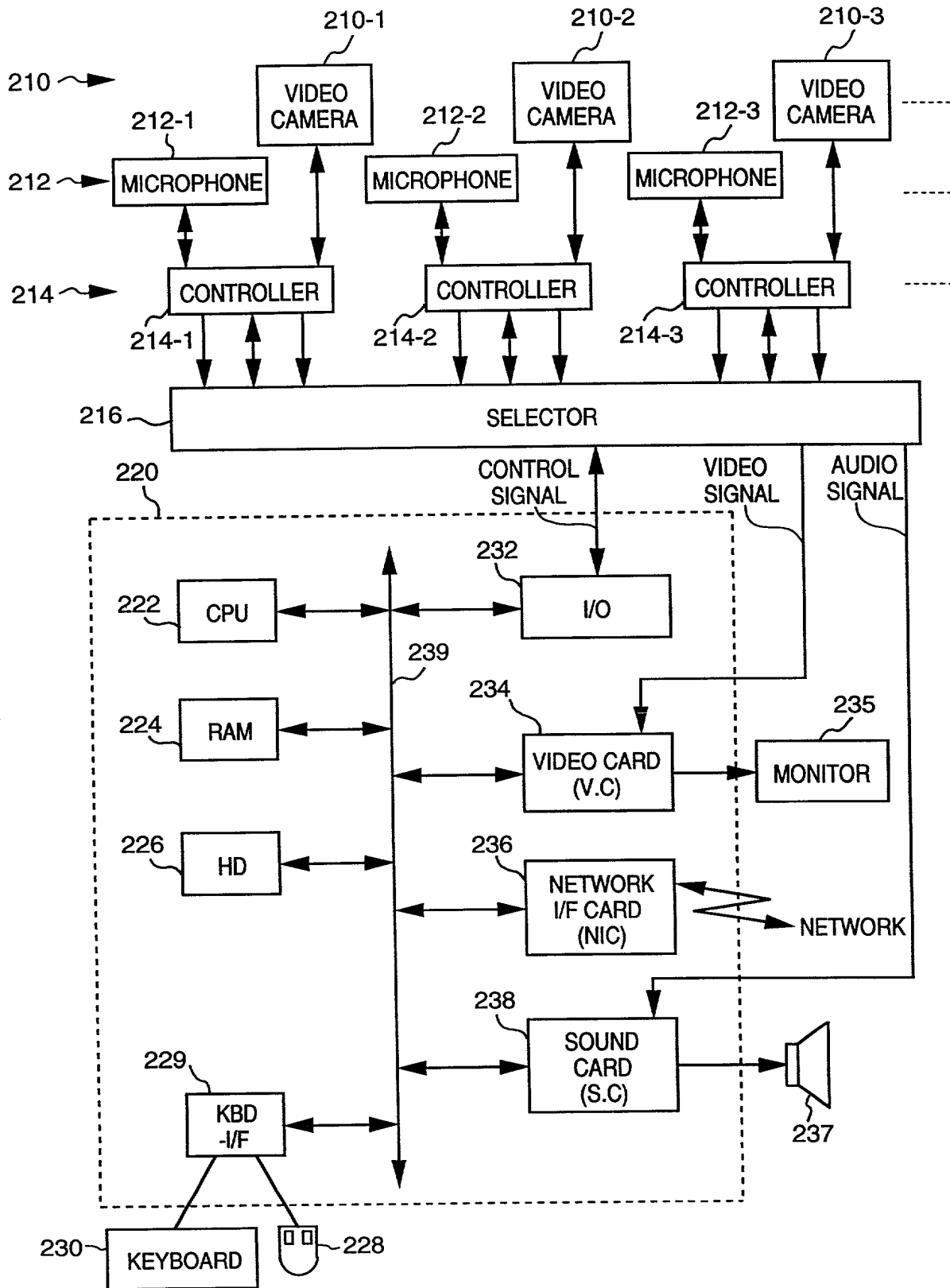
FIG. 19

FIG. 20

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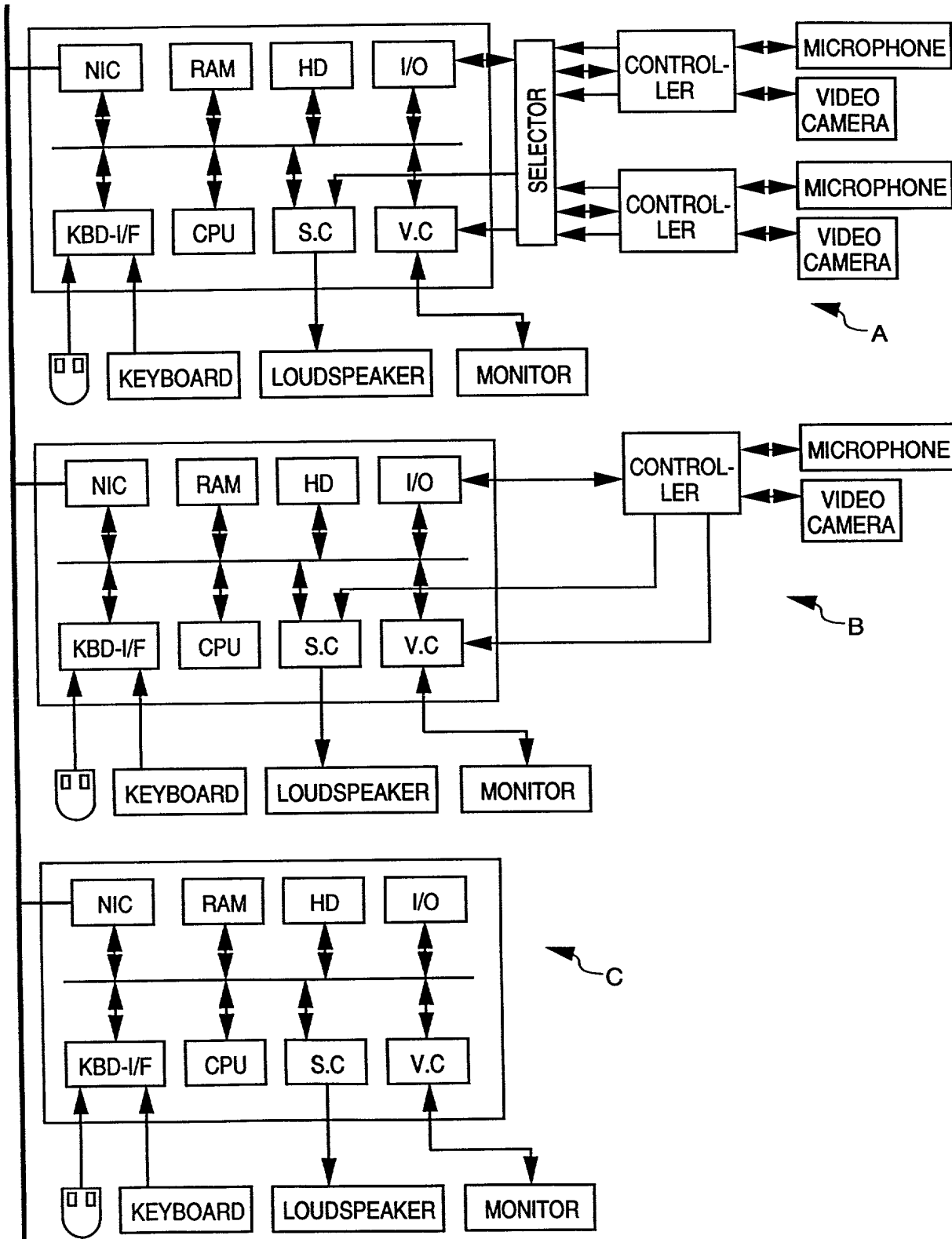


FIG. 21

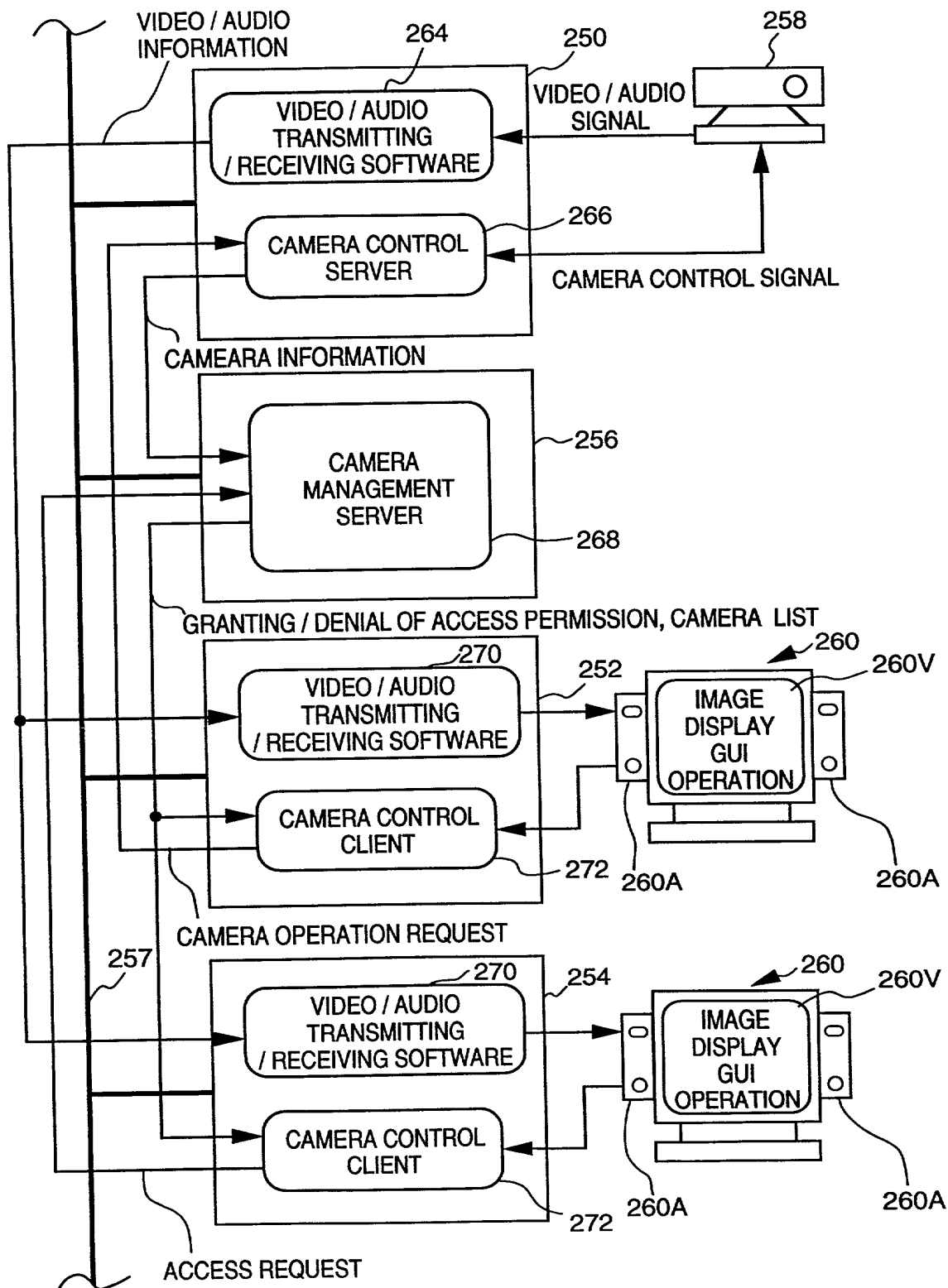


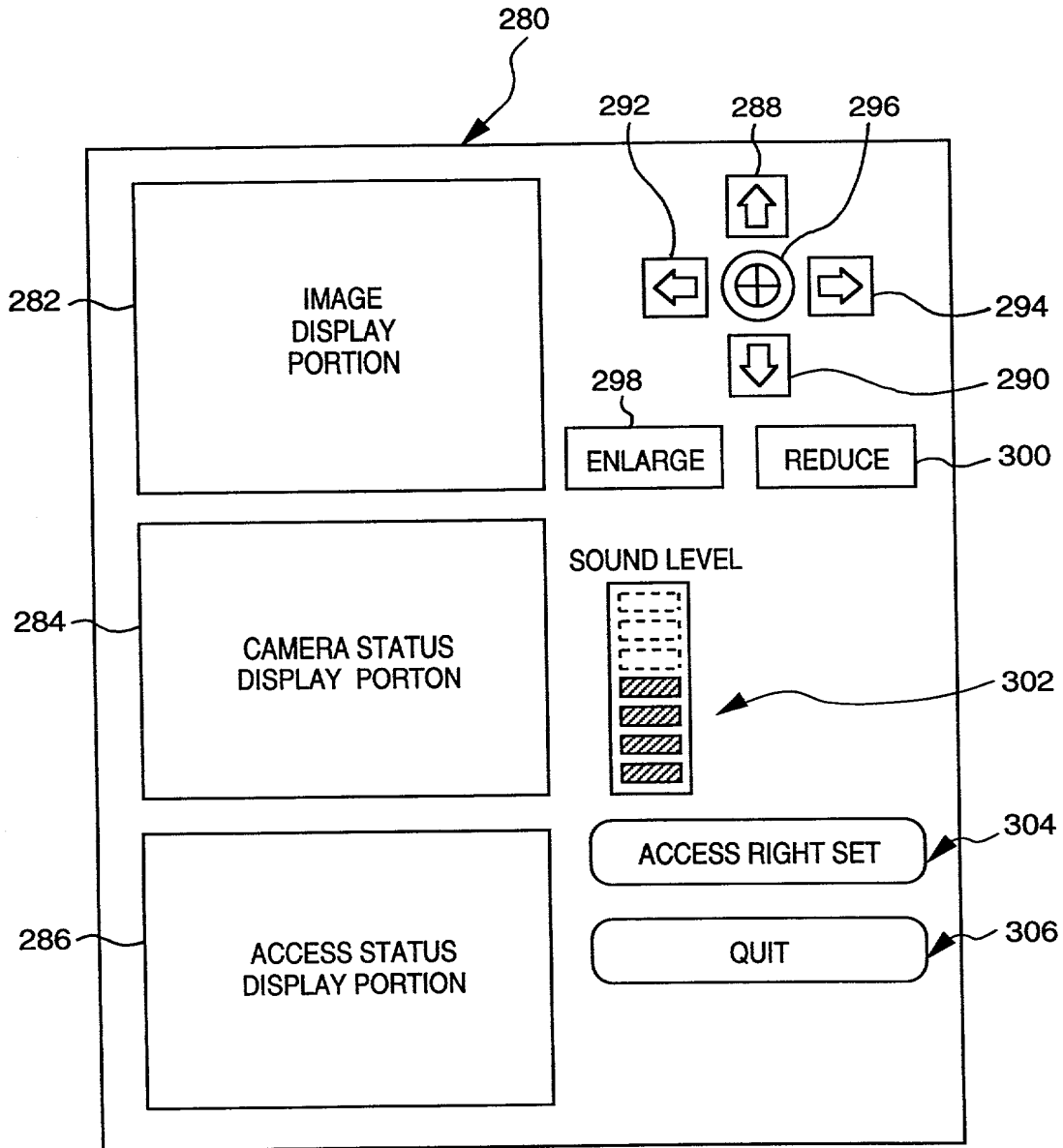
FIG. 22

FIG. 23

CAMERA NAME	HOST NAME	PAN,TILT, AND ZOOM	OWNER	USE STATE	REMARKS
CAMERA 1	HOST 1	(50, 10, 30)	USER 1	USER 3	-----
CAMERA 2	HOST 1	(20, 25, 0)	USER 1	UNUSED	-----
CAMERA 3	HOST 2	(-10, -5, 0)	USER 2	UNUSED	-----
CAMERA 4	HOST 3	(30, 0, 15)	USER 4	USER 1	-----
CAMERA 5	HOST 3	(-15, 15, 50)	USER 3	UNUSED	-----
.....

FIG. 24

USER NAME	VOICE RECEPTION	IMAGE RECEPTION	CAMERA OPERATION
USER 1	PERMITTED	PERMITTED	PERMITTED
USER 2	PERMITTED	PERMITTED	PARTIALLY PERMITTED
USER 3	PERMITTED	PERMITTED	PERMITTED
USER 4	PERMITTED	PERMITTED	INHIBITED
USER 5	INHIBITED	PERMITTED	INHIBITED
USER 6	PERMITTED	PERMITTED	INHIBITED
USER 7	INHIBITED	PERMITTED	INHIBITED
USER 8	PERMITTED	PERMITTED	PERMITTED
⋮	⋮	⋮	⋮
USER n	INHIBITED	INHIBITED	INHIBITED

FIG. 25B

USER GROUP NAME	VOICE RECEPTION	IMAGE RECEPTION	CAMERA OPERATION
GROUP 1	PERMITTED	PERMITTED	PERMITTED
GROUP 2	PERMITTED	PERMITTED	PARTIALLY PERMITTED
GROUP 3	PERMITTED	PERMITTED	INHIBITED
GROUP 4	INHIBITED	PERMITTED	INHIBITED
⋮	⋮	⋮	⋮
GROUP m	INHIBITED	INHIBITED	INHIBITED

FIG. 26A

USER GROUP NAME	VOICE RECEPTION	IMAGE RECEPTION	CAMERA OPERATION
GROUP 1	PERMITTED	PERMITTED	PERMITTED
GROUP 2	PERMITTED	PERMITTED	PERMITTED
OTHERS	PERMITTED	PERMITTED	INHIBITED

FIG. 26B

USER GROUP NAME	VOICE RECEPTION	IMAGE RECEPTION	CAMERA OPERATION
GROUP 1	PERMITTED	PERMITTED	PERMITTED
GROUP 2	PERMITTED	PERMITTED	INHIBITED
OTHERS	INHIBITED	INHIBITED	INHIBITED

FIG. 26C

USER GROUP NAME	VOICE RECEPTION	IMAGE RECEPTION	CAMERA OPERATION
GROUP 1	INHIBITED	PERMITTED	INHIBITED
GROUP 2	INHIBITED	INHIBITED	INHIBITED
OTHERS	INHIBITED	INHIBITED	INHIBITED

FIG. 27

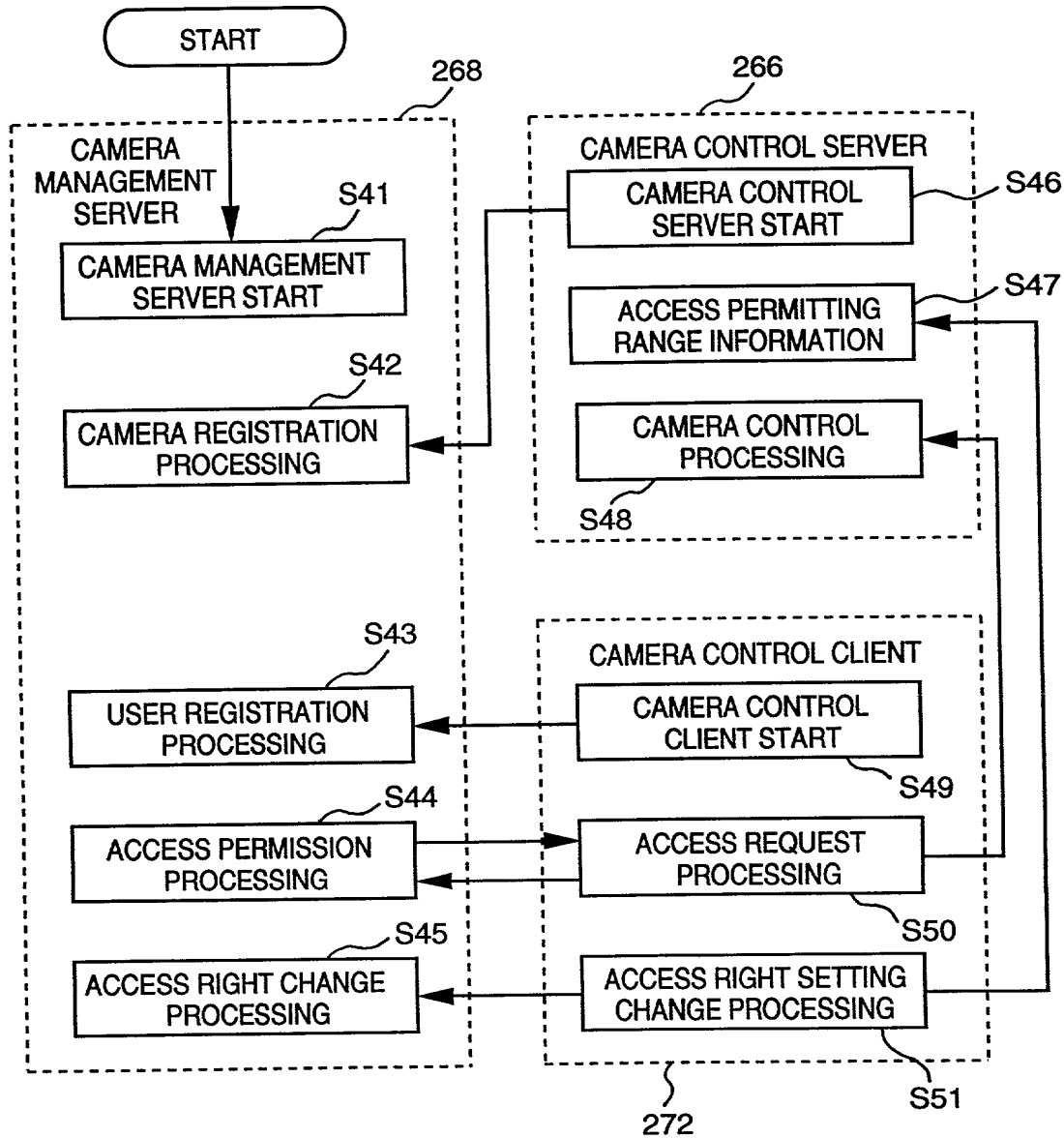


FIG. 28

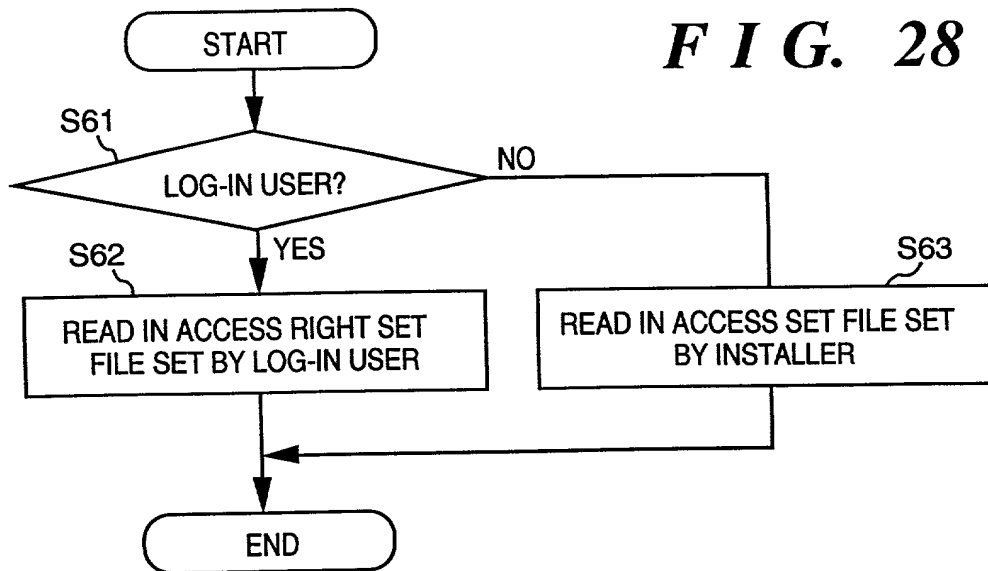
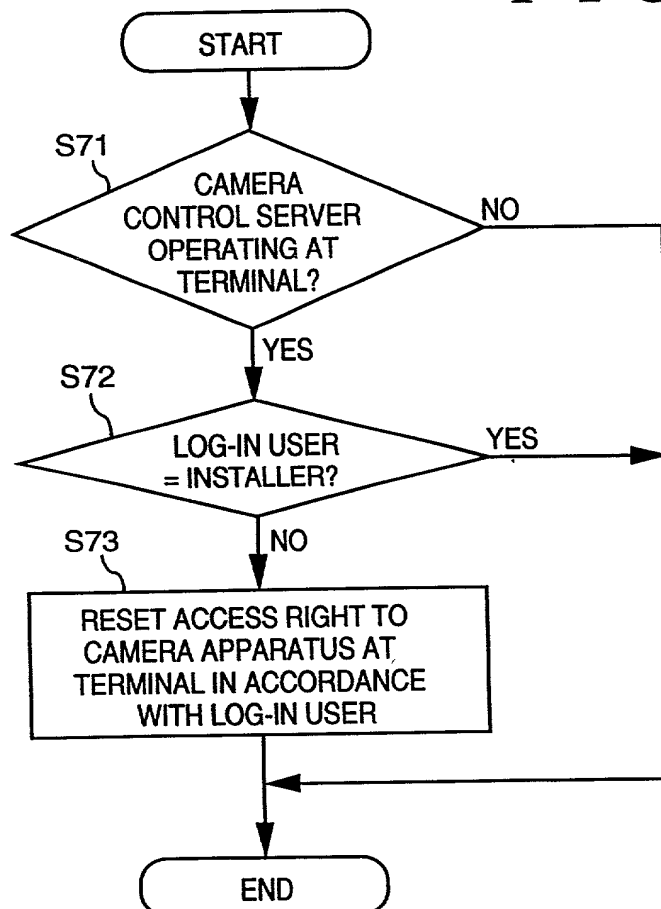


FIG. 29



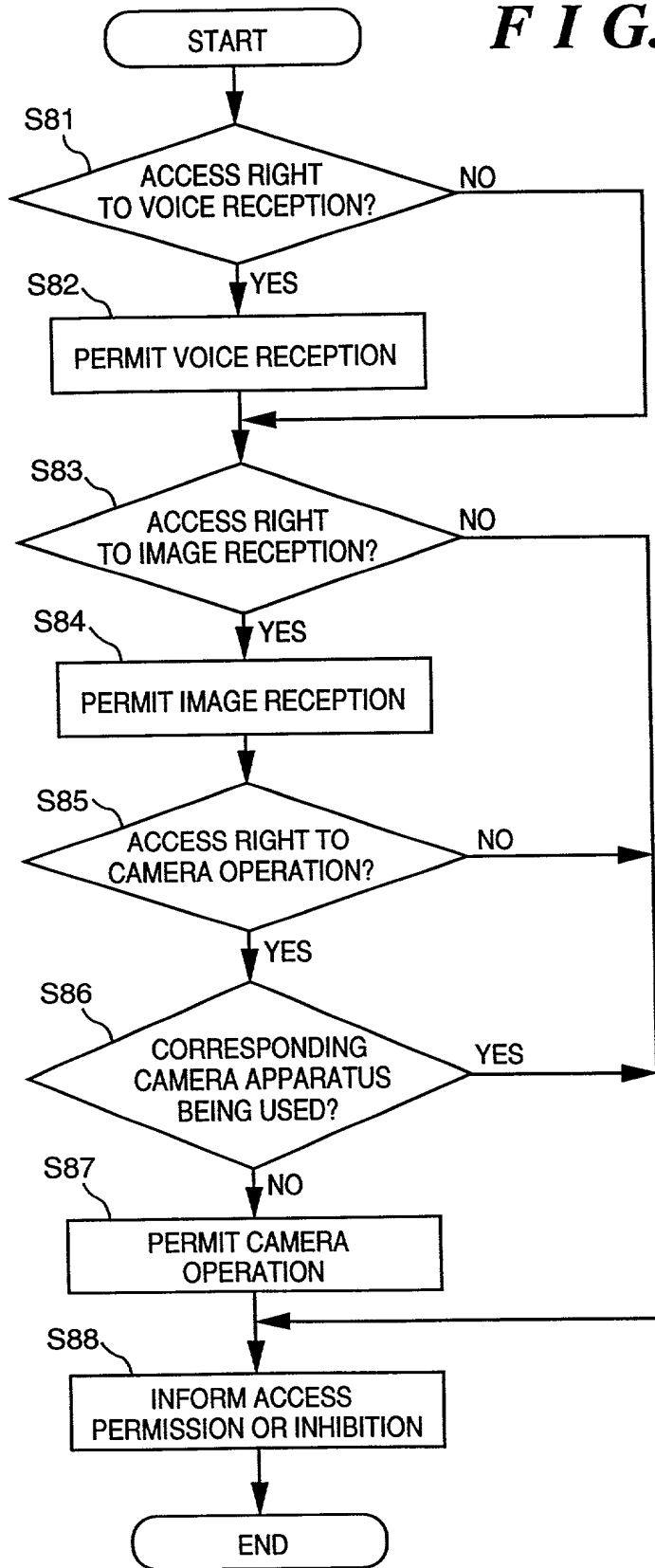


FIG. 31

USER GROUP NAME	VOICE RECEPTION	IMAGE RECEPTION	CAMERA OPERATION
USER 1	PERMITTED	PERMITTED	PERMITTED
USER 2	PERMITTED	PERMITTED	PARTIALLY PERMITTED
USER 3	PERMITTED	PERMITTED	PERMITTED
USER 4	PERMITTED	PERMITTED	INHIBITED
USER 5	INHIBITED	PERMITTED	INHIBITED
USER 6	PERMITTED	PERMITTED	INHIBITED
USER 7	INHIBITED	PERMITTED	INHIBITED
USER 8	PERMITTED	PERMITTED	PERMITTED
⋮	⋮	⋮	⋮
USER n	INHIBITED	INHIBITED	INHIBITED

FIG. 32

ACCESS CONTROL PANEL	
CAMERA NAME	
<div><div>CAMERA 1</div><div>CAMERA 2</div><div>CAMERA 4</div></div>	<div></div>
<div><div><input type="radio"/></div>PUBLIC</div> <div><div><input checked="" type="radio"/></div>PRIVATE</div>	
ACCESS MODE	<div>NORMAL</div>
<div>SET ACCESS RIGHT</div>	
<div>CANCEL</div>	<div>OK</div>

FIG. 33

CAMERA INFORMATION	
CAMERA NAME	<input type="text" value="CAMERA 1"/>
HOST NAME	<input type="text" value="HOST 1"/>
CAMERA OWNER	<input type="text" value="URISAKA"/>
LOG-IN USER	<input type="text" value="URISAKA"/>
INSTALLER	<input type="text" value="KAWAI"/>
<div><input type="button" value="DELETE CAMERA"/> <input type="button" value="CLOSE"/></div>	

FIG. 34

ACCESS MODE
<input type="button" value="OPEN"/>
<input checked="" type="button" value="NORMAL"/>
<input type="button" value="CLOSE"/>

FIG. 35

ACCESS RIGHT SET

CAMERA OWNER

URISAKA

ACCESS MODE

NORMAL

USER GROUP NAME	VOICE RECEPTION	IMAGE RECEPTION	CAMERA OPERATION
GROUP 1	PERMITTED	PERMITTED	PERMITTED
GROUP 2	PERMITTED	PERMITTED	INHIBITED
OTHERS	INHIBITED	PERMITTED	INHIBITED

CANCEL

DEFAULT

OK

ACCESS RIGHT
DISPLAY CHANGE PORTION

F I G. 36

PERMITTED
PARTIALLY PERMITTED
INHIBITED

F I G. 37

ACCESS MODE

OPEN
NORMAL
CLOSE
SET NEW MODE
DELETE MODE

FIG. 38

SET NEW ACCESS MODE	
NEW MODE NAME	<input type="text"/>
<input type="button" value="CANCEL"/>	<input type="button" value="OK"/>

FIG. 39

DELETE ACCESS MODE
DELETE?
<input type="button" value="CANCEL"/> <input type="button" value="DELETE"/>

FIG. 40

SET USER GROUP			
GROUP 1	GROUP 2	OTHERS	<div>FORM GROUP</div> <div>DELETE GROUP</div> <div>OK</div> <div>CANCEL</div>
<div>USER 1 USER 3 USER 8</div>	<div>USER 2 USER 4 USER 5</div>	<div>USER 7 USER 6 USER 9</div>	

FIG. 41

DELETE USER GROUP	
DELETE?	
CANCEL	DELETE

FIG. 42

FORM USER GROUP	
NEW GROUP NAME	<input type="text"/>
CANCEL	OK

FIG. 43

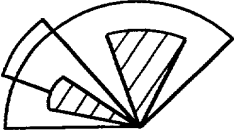
SET CAMEARA OPERATION RANGE	
	<input checked="" type="checkbox"/> PAN <input type="text"/>
	<input checked="" type="checkbox"/> TILT <input type="text"/>
	<input type="checkbox"/> ZOOM <input type="text"/>
CANCEL	OK

FIG. 44

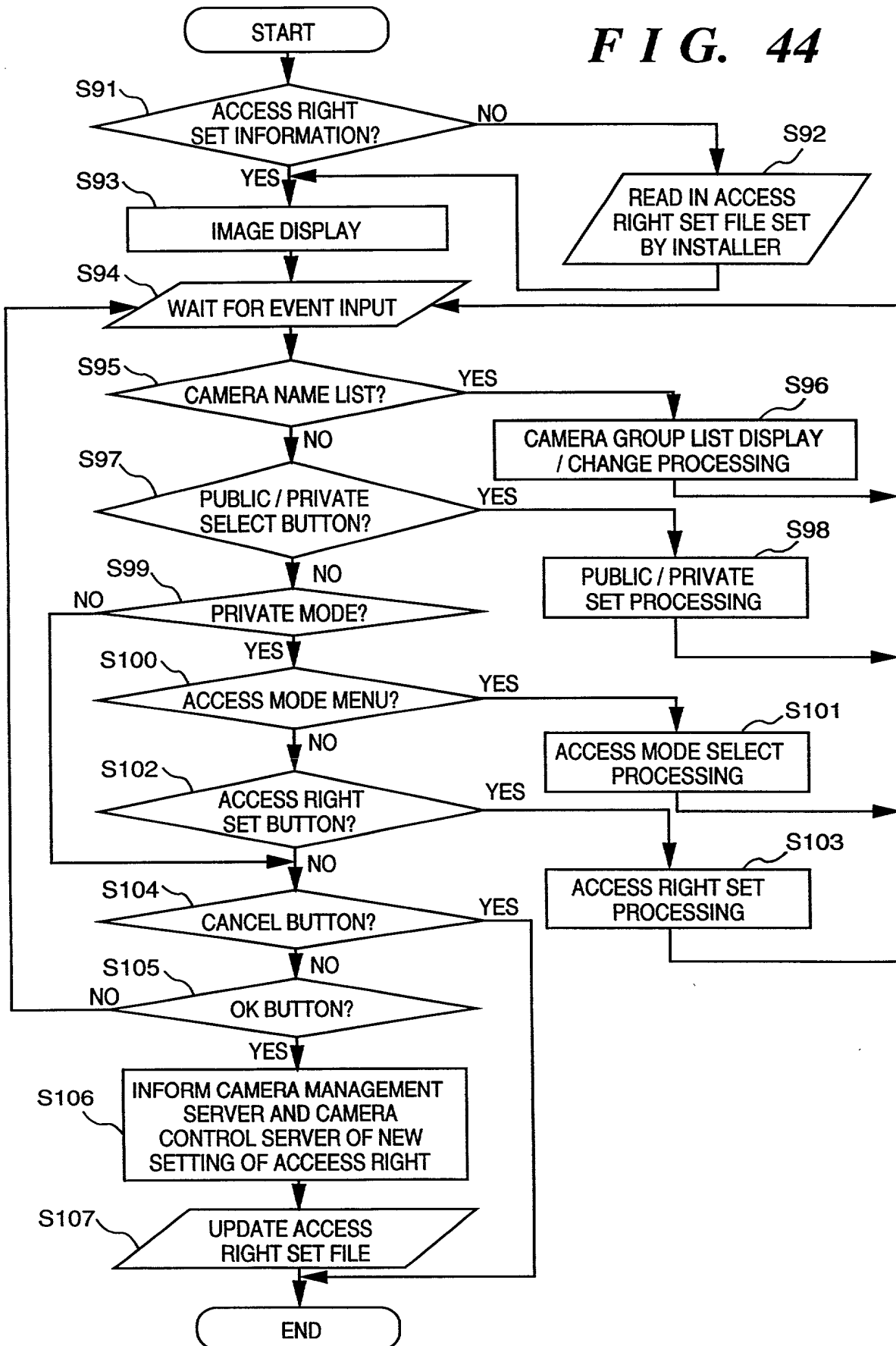


FIG. 45

